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KENYON KENYON

Application No.: 09/751,761

Amendment and RCE dated: September 15, 2005 Reply to Office Action dated: June 17, 2005

AMENDMENTS TO THE CLAIMS

- 1-19 (Cancelled)
- 20. (Previously Presented) A method comprising: detecting a stall in an execution stage of a processor; generating a neutral instruction; providing said neutral instruction to said execution; and executing said neutral instruction to ascertain an architectural state value for said processor.
- 21. (Previously Presented) The method of claim 20 wherein said neutral instruction is generated when a plurality of instructions are generated by a compiler.
- 22. (Previously Presented) The method of claim 20 wherein said neutral instruction is generated by a No-operation (NOP) pseudo-random generator.
- 23. (Previously Presented) The method of claim 22 wherein the execution of said neutral instruction causes said processor to access a value stored in a register in said processor.
- 24. (Previously Presented) The method of claim 20 wherein the execution of said neutral instruction causes said processor to access a value stored in a register in said processor.

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- 25. (Previously Presented) The method of claim 20 wherein said neutral instruction is generated by a post-processor device.
- 26. (Previously Presented) A system comprising: stall logic coupled to an execution stage of a processor to detect a stall in said execution; and

comparison logic coupled to said execution stage, wherein upon occurrence of the stall said execution stage is to execute a neutral instruction to ascertain an architectural state value for said processor.

- 27. (Previously Presented) The system of claim 26 wherein said neutral instruction is generated by a compiler.
- 28. (Previously Presented) The system of claim 26 further comprising: a No-operation (NOP) pseudo-random generator coupled to the execution unit of said processor to generate said neutral instruction.
- 29. (Previously Presented) The system of claim 28 wherein the processor includes a register and the execution of said neutral instruction causes said processor to access a value stored in the register in said processor.

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- 30. (Previously Presented) The system of claim 29 wherein said neutral instruction includes ORing the contents of said register with itself.
- 31. (Previously Presented) The system of claim 29 wherein said neutral instruction includes ANDing the contents of said register with all binary 1 values.
- 32. (Previously Presented) The system of claim 29 wherein said neutral instruction includes ORing the contents of said register with all binary 0 values.
- 33. (Previously Presented) A set of instructions residing in a storage medium, said set of instructions capable of being executed in an execution stage by a processor for implementing a method to test the processor, the method comprising:

detecting a stall in an execution stage of a processor;
generating a neutral instruction;
providing said neutral instruction to said execution; and
executing said neutral instruction to ascertain an architectural state value for said

34. (Previously Presented) The set of instructions of claim 33 wherein in said method said neutral instruction is generated when a plurality of instructions are generated by a compiler.

processor.

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35. (Previously Presented) The set of instructions of claim 33 wherein in said method said neutral instruction is generated by a No-operation (NOP) pseudo-random generator.

- 36. (Previously Presented) The set of instructions of claim 35 wherein in said method the execution of said neutral instruction causes said processor to access a value stored in a register in said processor.
- 37. (Previously Presented) The set of instructions of claim 33 wherein in said method the execution of said neutral instruction causes said processor to access a value stored in a register in said processor.
- 38. (Previously Presented) The set of instructions of claim 33 wherein in said method said neutral instruction is generated by a post-processor device.

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